

Aviation Group

Comprehensive Airborne
Upgrades & Conversions



Where Courage Meets Technology™

IAI Aviation Group

IAI is a world leader in the defense and commercial markets, delivering state-of-the-art technologies and systems in all domains: air, space, land, naval, cyber, homeland security and ISR.

IAI's Aviation Group, one of four business groups, draws on over 50 years of experience and expertise, and combines IAI's military and commercial aviation capabilities, to provide optimized solutions to meet our customer's specific needs. IAI's Aviation Group is involved in all aspects of the Aviation industry, including:

- Upgrades of Military Aircraft and Helicopters
- We offer an entire range of metal and composite aerostructures for military and commercial platforms
- Aircraft design, development, manufacturing, testing, certification, and building midsize business jets
- World leader in Passenger to Cargo Conversions
- Provider of Comprehensive Maintenance, Repair and Overhaul (MRO) services for Aircraft (base & line maintenance), Components, Engines and Engine Lease, Trade and Exchange

Military upgrades and conversions

IAI's Aviation Group has accumulated vast experience performing military aircraft and helicopter structural and avionics upgrades. IAI's cost-effective upgrade solutions provide platforms with enhanced operational performance and extended service life.

IAI's Aviation Group military aircraft programs include:

- Avionics and structural upgrade of fighter aircraft to extend service life and enhance mission operational capabilities
- Tailored helicopter avionics and mission systems
- Advanced Training Systems including Flight Simulators, Virtual Training Systems and Flight Debriefing Ground Aids
- Military transport aircraft life extension, modification and upgrade
- Advanced real-time airborne networks & avionics solutions
- IAI Kfir fighter aircraft upgraded with 4th generation avionics and new weapon systems
- Special Missions, Air Refueling Tankers aircraft conversions

taking your platform to the max



Aircraft

IAI's Conversions & Upgrades Division has comprehensive, in-house capabilities for performing upgrade programs, including avionics modification and cockpit reconfiguration as well as maintenance, overhauls and repairs for military aircraft.

IAI's Conversions & Upgrades Division has extensive experience having upgraded over 2,500 aircraft and helicopters. Such comprehensive experience provides the ability to tailor upgrade packages to each customer's specific needs and requirements.

IAI's highly skilled, multi-disciplinary teams of pilots, engineers, managers and technicians successfully implement complex upgrade programs. These programs typically include: design, development and integration of advanced state of the art systems and software together with verification, qualification and certification by analysis, ground testing and flight testing.

IAI has developed many systems to support and enhance the successful mission performance of upgraded aircrafts . These systems enable pilots to have optimized display of data and easy system control for operational use, as well as for training.



Helicopters

The Conversions & Upgrades Division has overhauled and upgraded thousands of helicopters - for both the Israel Air Force and customers from around the world. IAI's state-of-the-art upgrade solutions significantly enhance helicopter operational capabilities, providing customers with operational performance comparable with new helicopters. Upgrading helicopters is a cost-effective alternative to purchasing extremely costly, new helicopters.

The Conversions & Upgrades Division upgrade packages incorporate advanced avionics, sensors, weapons and self-defense systems, which are tailored to the exact requirements of each specific Customer. By drawing on the experience of our team of ex-Israeli Air Force pilots, IAI's helicopter upgrades are optimized to meet the real demands of current operations.

The Conversions & Upgrades Division also provides helicopter maintenance, overhaul and refurbishment services. IAI is authorized by Bell and several other helicopter OEMs to perform maintenance and repairs.



Transport

The Conversions & Upgrades Division is a World Class aerospace Maintenance, Repair & Overhaul (MRO) house of conversions for military and commercial transport aircraft, with high quality products, that are approved and licensed by a wide range of civil aviation authorities, including the CAAI, FAA, EASA and others. IAI's Aviation Group, is the Israeli Air Force official MRO and complete support center, with over 160 C-130 PDM's and other modifications, IAI provides total maintenance services, conversion to Aerial Refueling Tankers, engines overhaul (T56-15A) & components, alongside various transport aircraft platform upgrades and conversions.

The Conversions & Upgrades Division MRO center is highly experienced in Center Wing Box (CWB) replacement as part of the C-130 Life Extension and has performed it for the Israeli Air Force (IAF) C-130H Fleet.

In addition, the Conversions & Upgrades Division draws on its experience in Air-to-Air Refueling and Cargo Conversion to develop and convert a Multi Mission Tanker Transport configuration aircraft based on the B767 platform. The aircraft is configured simultaneously for air refueling, cargo, VIP, passengers and ISR systems - to fit the operator's needs.



Net-Centric Warfare Solutions

The Conversions & Upgrades Division Operational Avionics Layer (OPAL) solution enables air, land and naval forces to establish a highly scalable, robust and real-time distributed networking cloud. OPAL enables manned and unmanned platforms, to share real-time data and generate operational insights for an effective and safer joint mission performance with efficient mission control and management.

OPAL serves as the infrastructure for networking connectivity, data sharing and operative actions. Using OPAL enables different entities to create a common operating picture with enhanced situational awareness as well as advanced application-based situation management.

OPAL is a software-oriented, open-architecture solution, providing low lifecycle cost with a simple introduction of new capabilities. OPAL is delivered in a variety of form factors for optimized utilization in different platforms.





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